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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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ROCKWELL COLLINS INC
KYLE EPPELE M/S 124-323
400 COLLINS RD NE
CEDAR RAPIDS, IA 52498

EXAMINER

SONG, HOSUK

ART UNIT	PAPER NUMBER
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2131

DATE MAILED: 10/01/2003

4

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/317,766

Applicant(s)

DECKER ET AL.

Examiner

Hosuk Song

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 July 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s) _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

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DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-2,7-8,11-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dorsey et al.(US 6,198,751).

Claim 1: Dorsey discloses a translator for use with a first wireless network and a second wireless network in (fig.4A and col.1,lines 18-22). Dorsey does not specifically disclose communicating in a first encrypted format. Official notice is taken that encrypted wireless communication is well known in the art. One of ordinary skill in the art would have been motivated to use encryption technique since encrypted data transmission are much more difficult for an unauthorized party to intercept/access the data thus providing a highly secure mechanism for transferring information one terminal to another. Dorsey disclose second wireless network including a second terminals communicating in a non-encrypted format in (col.1,lines 55-61). Dorsey disclose translator including a first translator terminal communicating with the first terminals in (fig.4a,#45). Dorsey discloses a second translator terminal communicating with the second terminals in (fig.4a,#44). Dorsey disclose translator

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communicating selected information between the first network and the second network in (col.7,lines 1-21).

Claim 2: Dorsey does not specifically disclose translator includes a message filter for allowing the selected information to be communicated from the first network to the second network. Official notice is taken that message filter is well known in the art. One of ordinary skill in the art would have been motivated to use message filter system in order to guard or prevent against any unwanted data such as virus,spam from reaching its destination point thus enhancing data efficiency and providing a secure environment for all parties.

Claim 7: Dorsey does not specifically disclose translator communicating with third network in a third encrypted format. It would have been obvious to person of ordinary skill in the art to recognize that translator taught in Dorsey can accept data from different networks and further translator can analyze its data in different format. See (fig.8 and fig.4A).

Claim 8: Dorsey discloses a translator for use with a first wireless network and a second wireless network in (fig.4A and col.1,lines 18-22). Dorsey does not specifically disclose communicating in a first encrypted format. Official notice is taken that encrypted wireless communication is well known in the art. One of ordinary skill in the art would have been motivated to use encryption technique since encrypted data transmission are much more difficult for an unauthorized party to intercept/access the data thus providing a highly secure mechanism for transferring information one terminal to another. Dorsey disclose second wireless network including a second terminals communicating in a non-encrypted format in (col.1,lines 55-61). Dorsey disclose translator including a first translator terminal communicating with the first terminals in (fig.4a,#45). Dorsey discloses a second translator terminal

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communicating with the second terminals in (fig.4a,#44). Dorsey disclose translator communicating selected information between the first network and the second network in (col.7,lines 1-21).

Claim 11: Dorsey does not specifically disclose translator communicating with third network in a third encrypted format. It would have been obvious to person of ordinary skill in the art to recognize that translator taught in Dorsey can accept data from different networks and further translator can analyze its data in different format. See (fig.8 and fig.4A).

In claim 12: Dorsey discloses translating the data in the second format to the data in the first format and communicating the translated data among the first terminals in (col.4,lines 52-66).

In claims 13,14: examiner takes Official notice that translating step is performed to be a translator under control of a US organization is well known in the art. One of ordinary skill in the art would have been motivated to have translator under control of a US organization in order to prevent misuse,abuse by outsiders where security can be breached. For example, there are many circumstances where the distribution or the use of encryption is regulated by the government. Presently, US government allows general purpose encryption products to be exported from the US to other countries only if those products utilize approved encryption algorithms and key sizes are weaker than a certain measure.

Claims 15,20: Dorsey discloses a translator for use with a first wireless network and a second wireless network in (fig.4A and col.1,lines 18-22). Dorsey does not specifically disclose communicating in a first encrypted format. Official notice is taken that encrypted wireless communication is well known in the art. One of ordinary skill in the art would have been

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motivated to use encryption technique since encrypted data transmission are much more difficult for an unauthorized party to intercept/access the data thus providing a highly secure mechanism for transferring information one terminal to another. Dorsey disclose second wireless network including a second terminals communicating in a non-encrypted format in (col.1,lines 55-61). Dorsey disclose translator including a first translator terminal communicating with the first terminals in (fig.4a,#45). Dorsey discloses a second translator terminal communicating with the second terminals in (fig.4a,#44). Dorsey disclose translator communicating selected information between the first network and the second network in (col.7,lines 1-21).

Claims 16,17: Wireless signals is discussed in above claim rejection 15. Dorsey does not specifically disclose translator communicating with third network in a third encrypted format. It would have been obvious to person of ordinary skill in the art to recognize that translator taught in Ranger can accept data from different networks and further translator can analyze its data in different format. See (fig.2,4 and col.4,lines 13-21).

Claim 18:examiner takes Official notice that translating step is performed to be a translator under control of a US organization is well known in the art. One of ordinary skill in the art would have been motivated to have translator under control of a US organization in order to prevent misuse,abuse by outsiders where security can be breached. For example, there are many circumstances where the distribution or the use of encryption is regulated by the government. Presently, US government allows general purpose encryption products to be exported from the US to other countries only if those products utilize approved encryption algorithms and key sizes are weaker than a certain measure.

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Claim 19: Dorsey does not specifically disclose translator located in an aircraft. Air surveillance used by an aircraft is well known in the art. One of ordinary skill in the art would have been motivated to install translator in an aircraft in order to deter and detect air signals transmitted from one country.

3. Claims 5-6,9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dorsey et al.(US 6,198,751) in view of Ahmadi et al.(US 6,597,671).

Claims 5,6,9,10: Dorsey does not specifically disclose spread spectrum tactical data terminals having country unique encryption. Ahmadi patent disclose this limitations in (col.8,lines 29-36 and col.11,lines 31-39). It would have been obvious to person of ordinary skill in the art at the time invention was made to use spread spectrum tactical data terminals having country unique encryption in order to minimize interferences between network thus reliability and performance will be enhanced. Further having country unique encryption prevents unauthorized user from joining the network or to monitor the data traffic thus enhancing network security.

4. Claims 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dorsey et al.(US 6,198,751) in view of Frink(US 4,870,571).

Claims 3,4: Dorsey does not specifically disclose the message filter being programmable. Frink patent disclose programmable message filter in (col.3,lines 12-13). It would have been obvious to person of ordinary skill in the art at the time invention was made to make message filter programmable as taught in Frink with translator disclosed in Dorsey because message types varies therefore treating each messages case by cases requires filter

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to be programmable in order to adapt changes. Further by making filter programmable, it gives user a freedom to how to handle incoming messages without having to make a major hardware or software upgrade.

Response to Amendment

5. Applicant's amendment to claims 1,4,6,8,10,15 necessitated the new grounds of rejection. Please see above.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hosuk Song whose telephone number is 703-305-0042. The examiner can normally be reached on Tue-Fri from 6:00 am-4:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 703-305-9648.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

HSS

Ayaz Sheikh

Ayaz Sheikh
AYAZ SHEIKH
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